

What is claimed is:

1. An assembly for separation of gas-containing liquids handled in a process industry, **characterized** in that, for the separation or partial removal of liquid-entrained gas, particularly air (9), from a liquid flow (7), the assembly
5 comprises a liquid-flow guide (2) adapted substantially close to the lower end of an inlet pipe (1) discharging the gas-containing liquid into a container.
2. The assembly of claim 1, **characterized** in that the height position of the
10 flow guide (2) is made adjustable in order to optimize the measurement of gas-containing liquids, most advantageously in pulp, board and paper industries, e.g., in a white-water or stock container, and to enhance separation of air (9) therein.
3. The assembly of claims 1-2, **characterized** in that air separation per-
15 formed by the flow guide (2) in the assembly is augmented with the help of a partition (3) having a bottom flow channel (6) provided therewith so as to pass the liquid from a receiving chamber (11) further to another chamber (12).
- 20 4. The assembly of claims 1-3, **characterized** in that on an outer wall (5) of the chamber (12) is provided a weir (4).
5. The assembly of claims 1-4, **characterized** in that the flow guide (2) is
25 shaped so as to guide the air-containing liquid flow (7) essentially upward toward the surface of the liquid level.
6. The assembly of claims 1-5, **characterized** in that the bottom of the flow
30 guide (2) most advantageously has a concave shape with its edges curving upward toward the surface of the liquid level or, alternatively, as required by the properties of the liquid handled in the process, is shaped either as a flat plane or with a downward convex shape.

7. The assembly of claims 1-6, **characterized** in that the flow guide (2) is made from sheet metal, perforated plate or other sheet material having a desired contour such as undulated plate and that the flow guide (2) is most
5 advantageously mounted on support rods (10) that displace the flow guide substantially at a distance from the lower end of the inlet pipe (1).

8. A method for separation of gas-containing liquids handled in a process industry, **characterized** in that, in the method for separation of gas-
10 containing liquids particularly free from air (9), the gas-containing liquid is directed to impinge on a liquid-flow guide (2) adapted to the lower end of an inlet pipe (1) discharging the gas-containing liquid into a container, thus accomplishing enhanced separation of air (9) from the liquid flow (7).

15 9. The method of claim 8, **characterized** in that the height position of the flow guide (2) is made adjustable in order to optimize the measurement of gas-containing liquids, most advantageously in pulp, board and paper industries, e.g., in a white-water or stock container, as well as to enhance separation of air (9).

20 10. The method of claim 9, **characterized** in that in the method the flow guide (2) serves to guide the air-containing liquid flow (7) essentially toward the surface of the liquid level in order to enhance separation of air (9) from the liquid flow (7) so as to obtain a solid flow (8).

25 11. The method of claim 7, **characterized** in that according to the method the flow-receiving chamber (11) is dimensioned for a sufficiently slow liquid flow velocity to permit separation of air (9) from the liquid flow (7).

30 12. The method of claims 7-9, **characterized** in that according to the method the solid flow (8) having the entrained air (9) separated therefrom is passed via a bottom flow channel (6) to another chamber (12).

13. The method of claims 7-10, **characterized** in that according to the method the separated solid flow (8) is passed via a weir (4) made to the outer wall (5) of the chamber (12) to further process steps.